## EG-247 Signals and Systems 2022-2023

# Lab 03: Laplace transforms and transfer functions for circuit analysis For the first part of this lab, Exercises 4-6, you have the option to complete the exercises using MATLAB Grader. If you do so, you only need to insert a screenshot into this document of the completed exercises showing the final grade achieved. The MATLAB Grader grade (suitably scaled) will be transferred from MATLAB Grader to the Canvas grader centre.

Otherwise, please follow the script for Exercises 4 to 6 in the [Lab Descriptor](https://cpjobling.github.io/eg-247-textbook/labs/lab03/index) and upload the files requested to Canvas alongside this completed form when you submit.

## Claim Form

|  |  |  |
| --- | --- | --- |
| Level of Achievement | Evidence | Mark Claimed |
| Pass Level | Lab Exercises 4 and 5 (1 mark) Lab Exercise 6 (1 mark) |  |
| Competent |  |  |
| Expert | Mini Project 2: (solution7.m modified to use your student number and produce additional outputs and Simulink model) (3 marks) |  |
| Total Claimed | |  |

## Declaration

*Either*  
[ ] I completed Exercises 4-6 using MATLAB Grader and I have attached evidence of this as a screenshot below.

[ ] *Optional* I will be happy to participate in a survey on the effectiveness of MATLAB Grader

*Or*

[ ] I completed Exercises 4-6 using the method described in the Lab Descriptor and I have attached the evidence as MLX files.

[ ] I confirm that I believe that I have earned the mark that I am claiming.

[ ] I confirm that the work submitted was my own effort.

[ ] I accept that the evidence of the work that I have submitted will be subject to peer audit and check.

## Peer Assessment

[ ] I understand that I will be asked to review the work of one of my peers.

[ ] I will endeavour to complete my peer review quickly and professionally.

[ ] I will endeavour to provide constructive feedback to the standard that I would expect my own work to receive.

Now submit your work using the **Lab 03: Laplace transforms and transfer functions for circuit analysis** assignment in Canvas along with the completed copy of this claim form and declaration.

Screen shot  
Only if you completed Exercises 4-6 using MATLAB Grader, please insert a screenshot of the results for Lab 3 here as evidence.

## Questions and Discussion

If you have any questions about this lab exercise, please use the associated discussion on Canvas.

## Submission checklist

Ensure that you have submitted:

[ ] The completed version of this document;

The *MATLAB live scripts* (mlx-files) and *Simulink* models (slx-files):

[ ] For mini-project 2:: proj2.mlx and proj2.slx;

If you did not perform Exercises 4-6 using MATLAB Grader please also include:

[ ] For lab exercises four and five: ex4.mlx, ex5.mlx;

[ ] For lab exercise six: ex6.mlx.